DIVISION OF BUILDING SAFETY
ELECTRICAL BUREAU

INTRA-DIVISIONAL MEMO

DATE: September 7, 2004

TO: Electrical Inspectors and Staff

FROM: Jeff Fitzloff
Electrical Inspection Program Supervisor

SUBJECT: Permits, Inspections and Documentation of Luminaries on Poles

The previous Temporary Rule regarding Light-poles has been rescinded by the Electrical Board because recently, new products have become available suitable for a safer installation and fusing of luminaries. Below are the new procedures regarding how to handle permits that have been issued for installations that are in accordance with the new emergency IDAPA Rule.07.01.06011.01d, effective 8-11-04.

When the inspections in the field have been completed the (completed-permit) is to be transferred to the Electrical Inspections Program Supervisor for review. Upon verification of the documentation that the job had been inspected, in accordance with the attached memo and the permit has been properly completed, the permit will be stamped completed and will be filed.

The Board's Rule varies from the standard service/feeder requirements of the 2002 National Electrical Code (NEC); therefore strict compliance to the rule and procedure guidelines will be enforced. The following guidelines are being provided to assist you in your inspection and permit documentation.

GUIDELINES:

1. The Luminaire pole must be **40 feet in height, or less.**
2. The pole shall support **only luminaries and no more than 4.**
3. The nominal operating voltage **cannot exceed 300 volts.**
4. The **pole will not be considered a structure as defined in the NEC** and therefore a service/feeder disconnect shall not be mounted to the pole.
5. **Poles shall be installed per manufactures instructions.**
6. The **service disconnecting means may be permitted elsewhere** in accordance with NEC. Article 225.32, exception 3.
7. SEC **special purpose fusible connectors** (model SEC 1791-DF or model SEC 1791-SF) or equivalent shall be installed in a listed handhold (underground)

enclosure, to satisfy the service disconnecting means requirements, preferably with in sight of the pole.

8. A grounding electrode system **shall be established at the point of service (hand hold enclosure), and bonding and grounding done at that point.**
9. The ungrounded fused conductor(s), the grounded conductor, (if needed for the circuit), and the equipment-grounding conductor, **shall be routed together to the pole.**
10. **Overcurrent protection shall be provided by a (fast-acting – minimum – 100K RMS Amps 600 VAC) rated fuse.**
11. **The Overcurrent device will be sized to protect the wiring and the luminaire.**
12. The fuse holder will be Separable (Break-a-way) Fuse holder protected by supplementary overcurrent device(s) (time-delay-minimum – 10K RMS Amps 600 FAC), accessible from the hand hole.
13. The fuse holder will be installed inside the pole and will be accessible through the hand hole.
14. There will be enough free conductors to facilitate the access to the fuse and the removal of the fuses.
15. **Any poles supporting or incorporating utilization equipment or exceeding the prescribed number of luminaries, or in excess of 40-feet, shall be considered structures, and an appropriate service disconnecting means shall be required per the NEC I require a separate service (Taps and receptacles will not be allowed.)**

The permit will be required to have full documentation that each of the above requirements has been met at the time of your final inspection. When the inspection is completed it will be stamped **INSPECTION COMPLETED** and it will be noted on the back of the card/computer and identified as **INSPECTON COMPLETED PER EMERGENCY RULE (8/11/2004) REQUIREMENTS OF THE ELECTRICAL BOARD,** dated and initialed by the inspector.

SEC SPECIAL PURPOSE CONNECTORS
TYPICAL WIRING DIAGRAM

Division of Building Safety
Electrical Bureau
IDAPA 07.01.06011.01(d)
Effective - 8/11/2004
LUMINAIRES ON POLES
(Alternate to NEC 225.32, Exception No. 3)